Machine Gun, 40MM, MK-19, Mod 3

This is an UNCLASSIFIED block of Primary Marksmanship Instruction (PMI)

Training Outline

- Characteristics of the MK-19
- Safety with the MK-19
- Breaking down the MK-19
- Marksmanship with the MK-19
- Firing positions with the MK-19
- Conclusion

References

- FM 23-27
- TM 9-1010-230-10
- TM 9-1010-231-13&P
- Knowledgeable previous users of the MK-19

Characteristics of a Killer!

- The MK 19 is an air-cooled, blowback-operated machine gun, with five major assemblies.
- It uses ammunition that is belt-fed through the left side of the weapon by a disintegrating metallic link belt.

Characteristics of a Killer!

- Overall length = 43.1 inches
- Overall width = 13.4 inches
- Height (unmounted) = 8.8 inches
- Height (mounted on tripod) = 13.3 inches
- Weapon weight = 75.6 lbs!!!
- Total weight (tripod, weapon and cradle) = 140.6 lbs!

Characteristics of a Killer!

- Ammunition
  - M430 (HEDP)
  - M383 (HE)
  - M918 (TP)
  - M922 (Dummy)
- Does the ammo from the 203 and the ammo from the MK-19 mix?

NO!!

!!

Characteristics of a Killer!

- Range to target!
  - Maximums
    - Range = 2,212m (1.37 miles!)
    - Effective (point) = 1,500m (.93 miles)
    - Effective (area) = 2,212m (1.37 miles!)
  - Area covered = 45˚ (800 mils)

Safety with the MK-19

- This weapon's favorite and only purpose
  - TO KILL
- Safety practices (read pages "a" through "i" of TM 9-1010-230-10 for complete list)
  - Always wear Kevlar; Goggles,SWD or other rated ballistic eye protection; Flak Vest. These are just the *minimum* when firing!
  - Always be aware of anything downrange that could intercept the round prior to it reaching a distance of 310 meters!

Safety with the MK-19

- ***CLP is <u>NOT</u> authorized for use on this end item!!!***
  - CLP will “gum up” this weapon!
- Authorized lubricants
  - GMD (Grease, Molybdenum Disulfate)
  - LSAT
  - LAW (Lubricant, Automatic Weapons)

Break it down!

- *CLEAR AND BOLT FORWARD!!!!!*
- Backplate pin, Bolt and Backplate Assy
- Primary drive lever and vertical cam assy
- Secondary drive lever, Feed slide assy
- Top cover and Feed tray
- Alignment guide and Ogive Plunger
- Round Positioning block, Charging Handles, Sear

Marksmanship with the MK-19

- Three Classes of Fire
  - First stands alone
  - Second and third are related
- Class I = Respect to ground (plunging fire)

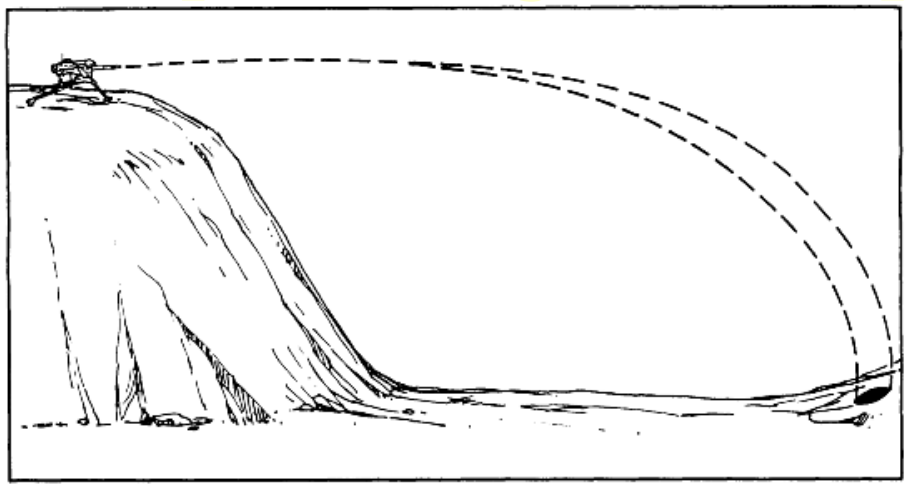
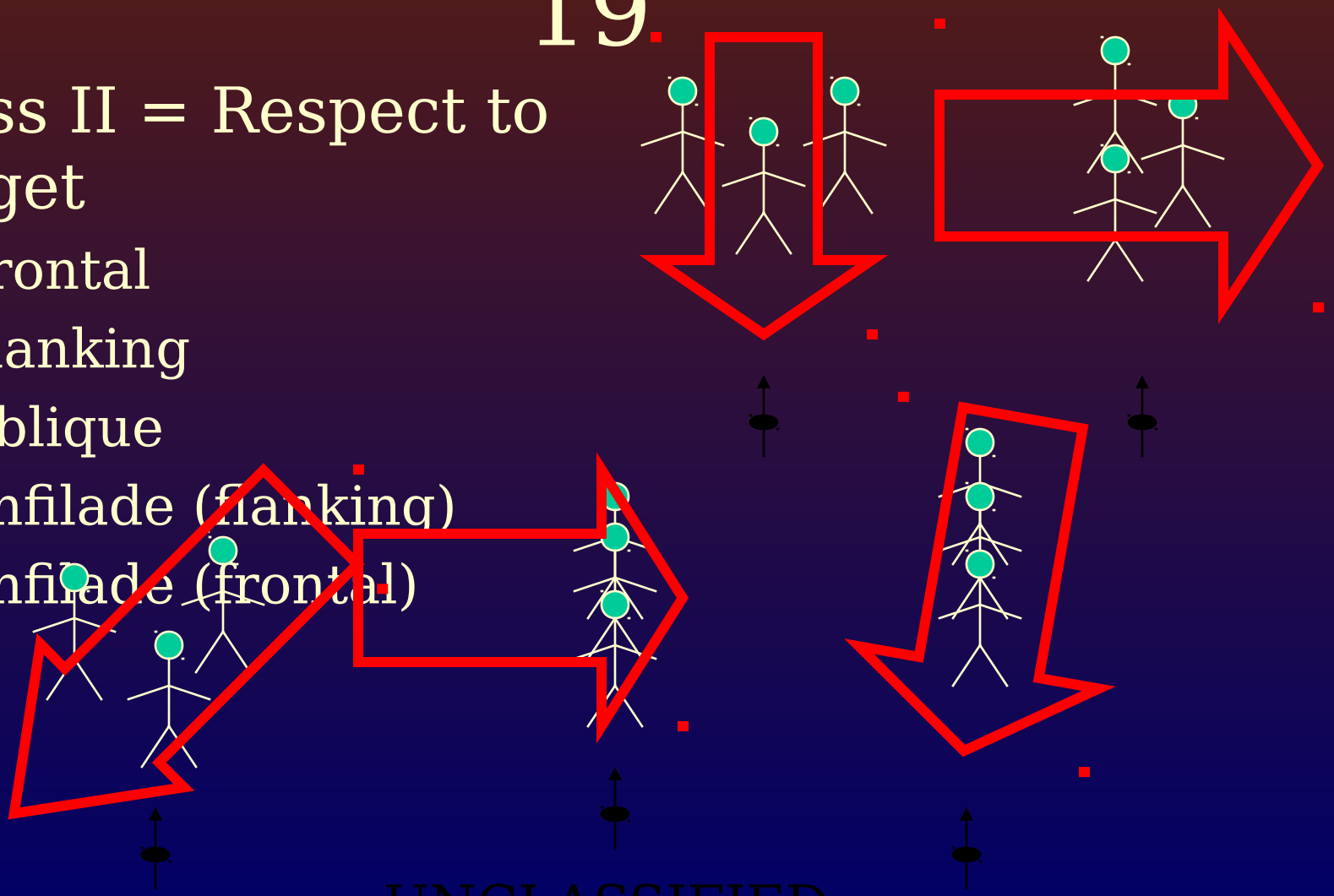


Figure 6-1. Plunging fire.

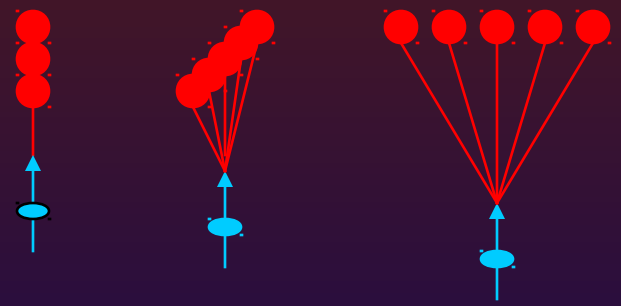
Marksmanship with the MK-19

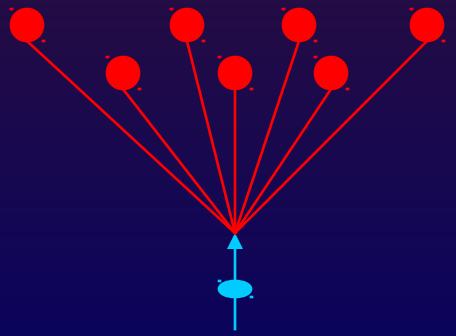
- Class II = Respect to Target
  - Frontal
  - Flanking
  - Oblique
  - Enfilade (flanking)
  - Enfilade (frontal)



Marksmanship with the MK-19

- Class III = Respect to the MK-19
  - Fixed
  - Traverse
  - Search
  - Traverse and Search
  - Swinging Traverse
  - Free Gun





Practical Exercise

Match the “Respect to MK-19 Method” to the “Respect to target” picture

Fixed

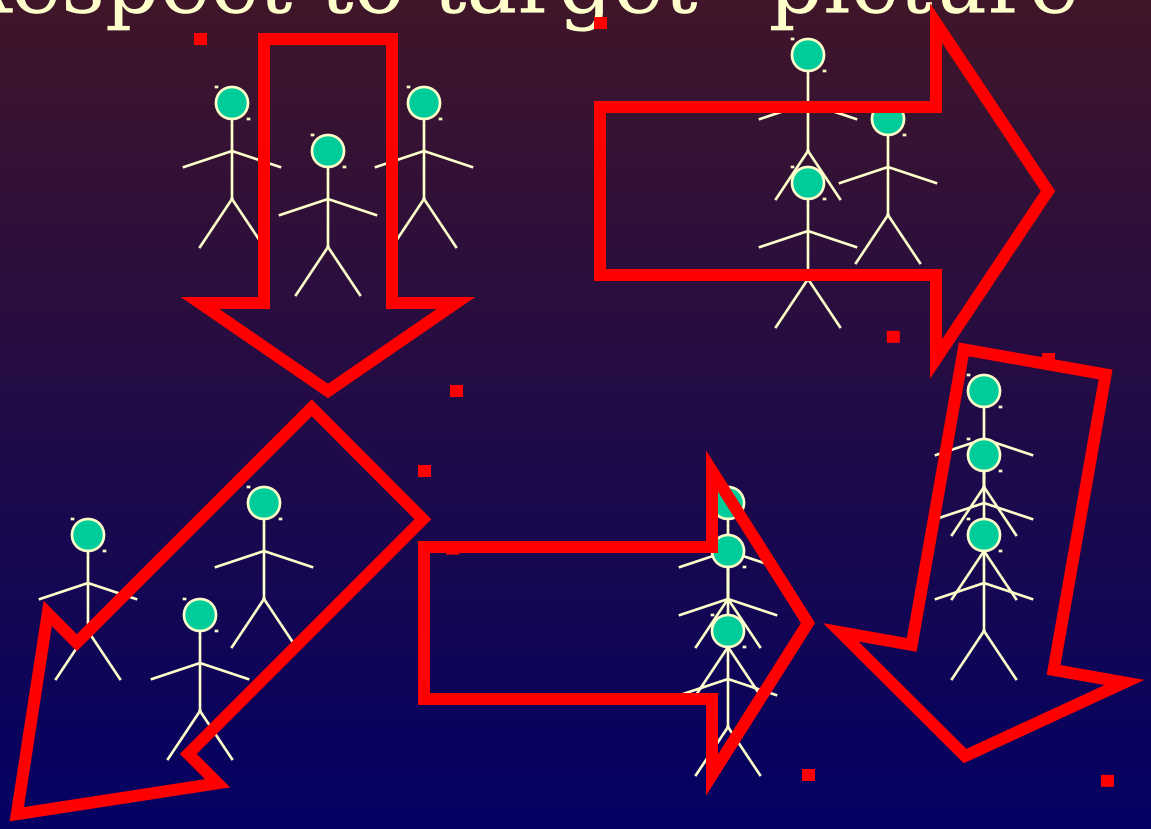
Traversing

Searching

Traversing and Searching

Swinging Traverse

Free Gun



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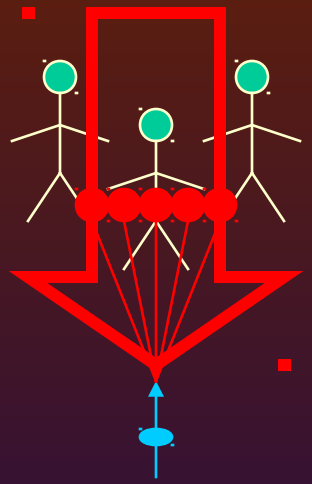
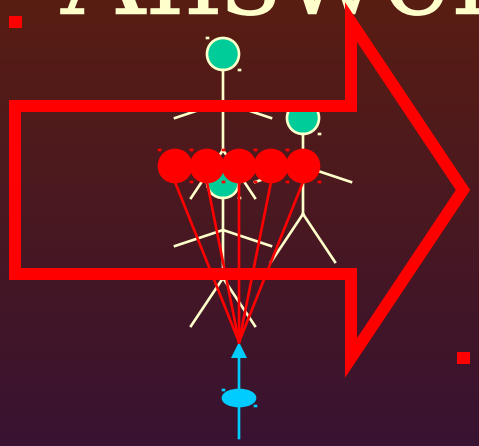
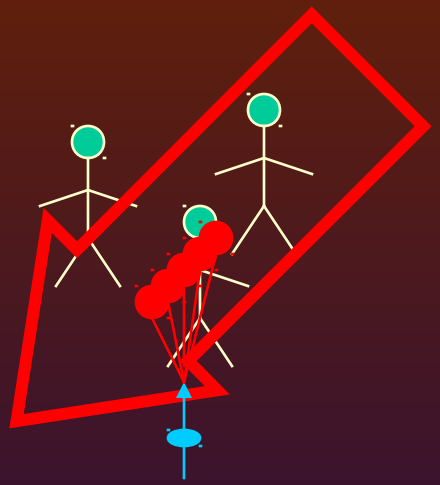
Answers



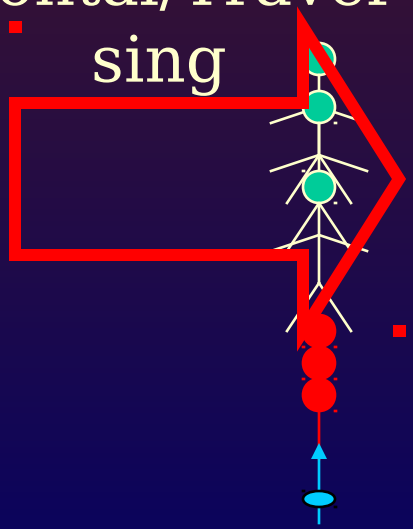
Frontal/Traversing



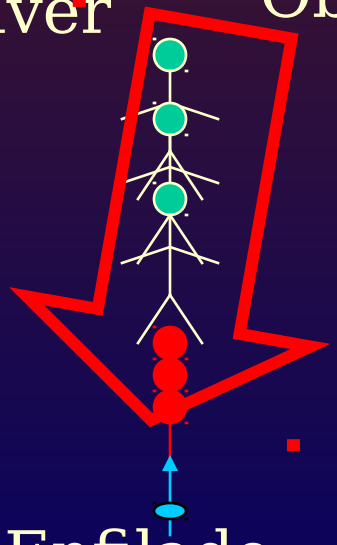
Flanking/Traversing



Oblique/Traversing and Searching



Enfilade (Flanking)/Searching



Enfilade (Frontal)/Searching

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Fighting Positions with the MK-19

- Size can determine yours
  - Sitting
    - Legs under the tripod
      - Legs must be small enough
    - Legs Crossed
    - Legs Braced

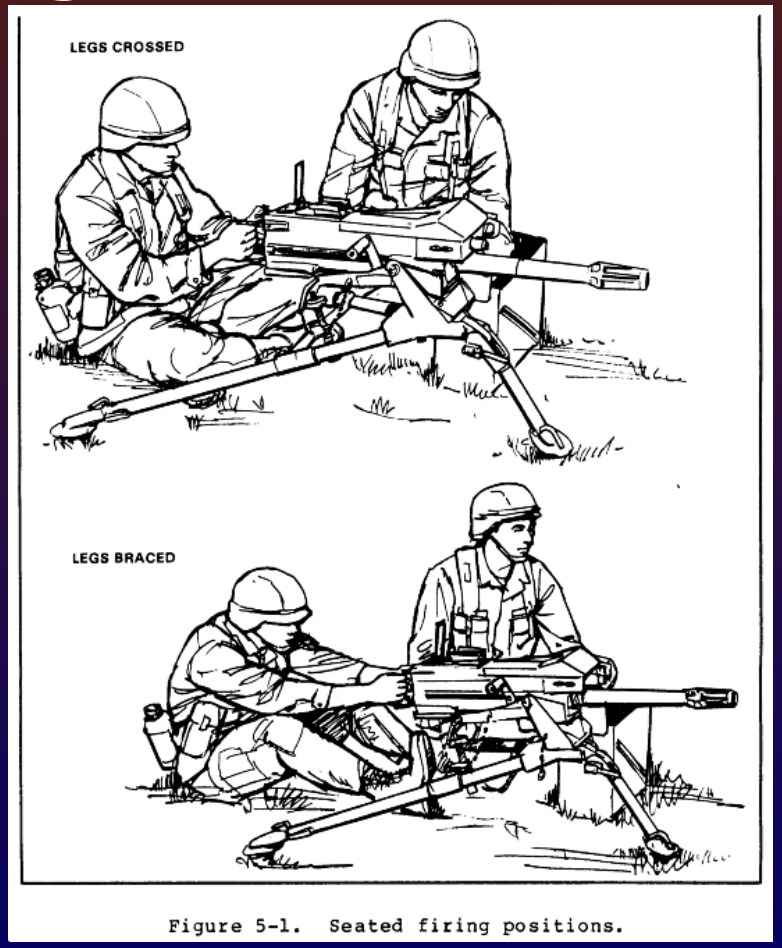
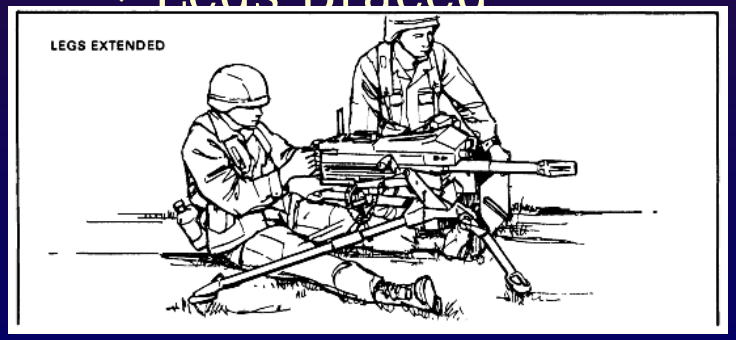


Figure 5-1. Seated firing positions.



Fighting Positions with the MK-19

- Kneeling
  - For hasty positions
  - Hard to sigh
  - Unstable

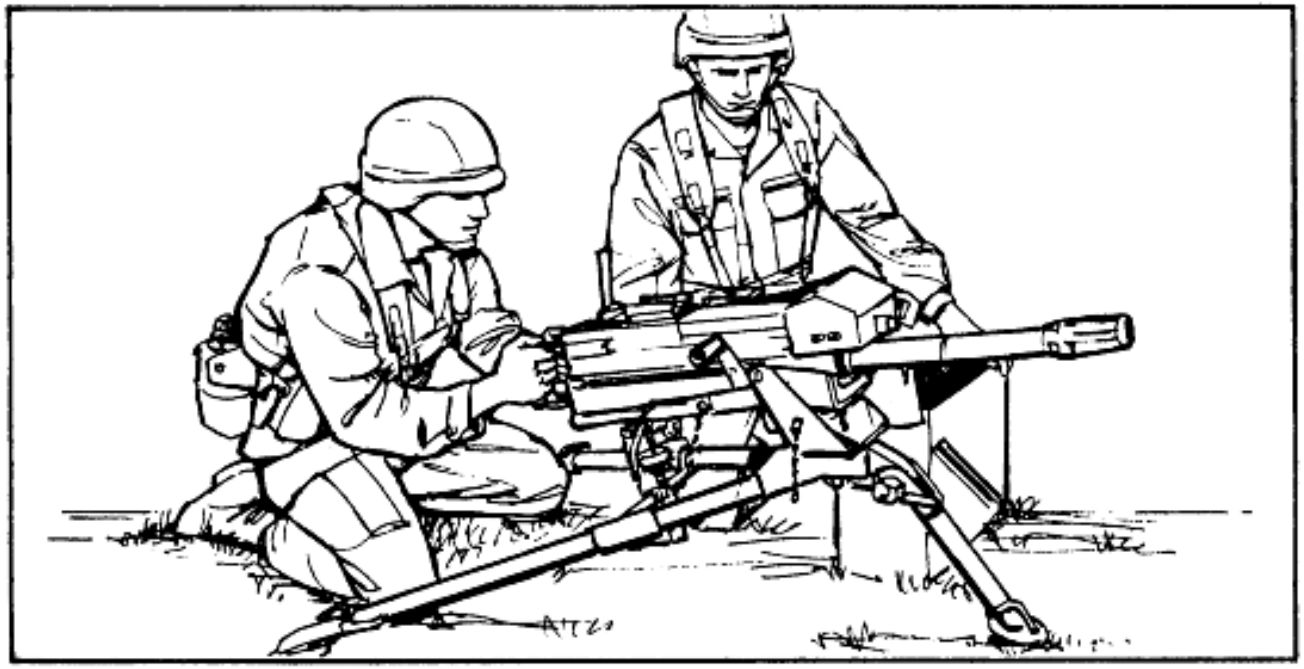


Figure 5-3. Hasty tripod position.

Fighting Positions with the MK-19

- Fighting Position
  - Dug-in, you are “eyes on” the sights and, therefore, the target.
  - Downside: dug in position requires DIGGING and, therefore, TIME

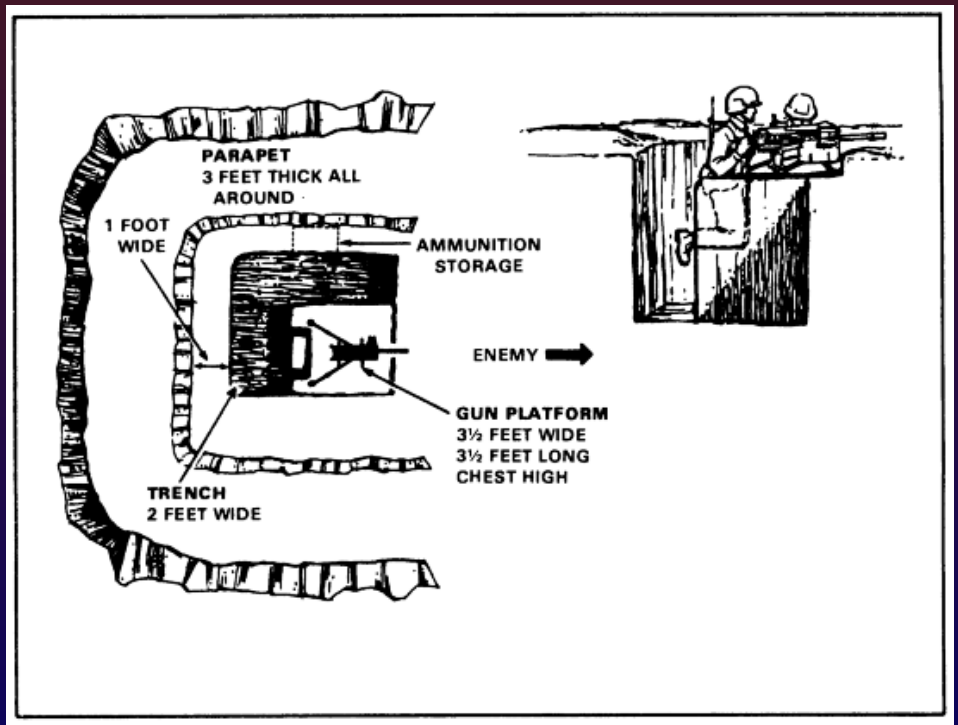


Figure 5-4. Dug-in position.

Conclusions

- What we have covered:
  - Safety Safety Safety!
  - Breaking down the MK-19
  - Marksmanship with the MK-19
  - Fighting positions

- Your Questions….

One final time before concluding, are there any final questions?

Reminder, this has been an unclassified block of instruction on the MK-19, Automatic Grenade Launcher. Please enjoy the remainder of your marksmanship training!!!